

INFORMATION REPORT

COUNTRY Hungary

SUBJECT Nitrogen Works at Petfurdo

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1. [] 25X1X
This factory, during
peace time, conducted various experiments for agricultural purposes and
during World War II was converted into making explosives.

2. [] 25X1X

3. "Data and Production Figures:

- a) The drinking water of the Power Plant is brought to the plant through separate pipe lines originating from two covered wells. The plant has a separate pipe line and pumping equipment for fire extinguishing. The Gas Plant can synthesize a maximum 40-50 tons of NH_3 per day. Average daily production amounts to 30-40 tons.
- b) The average production of the Ammonium Nitrate-Ammonium Salt Plant is 3 carloads of $\text{NH}_4 \text{NO}_3$ per day. If another crystallizer were installed, 6 carloads of $\text{NH}_4 \text{NO}_3$ could be produced daily. The manufacture of ammonium salts requires 3 carloads of $\text{NH}_4 \text{NO}_3$ daily. The storeroom had a capacity of 2000 carloads of salt.
- c) Five carloads of Calcium Nitrate are produced daily.
- d) Pet produces 15 tons of chlorine per week. The chlorine is stored in four hundred kilogram tin boxes.
- e) The plant produces 1400 kilograms of Trichloroethylene daily.
- f) Production of Diamine amounts to 400 kilograms, 20% strength, in 24 hours.
- g) The Cracking Plant produces 13,000 tons of refined gasoline from motor gasoline annually. Annual production of fuel oil, gas oil, and distilled petroleum amounts to 6,200; 2,900; and

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and 1,140 tons respectively. The fuel oil process nets 80 tons per day. These figures increased considerably by 1945.

4. "Daily Output of Pet Nitrogen Works:

Ammonia Synthesis 35-40 tons of NH_3
Dilute Nitric Acid 48-50% - 120-140M3
i.e. 75-87 tons of 100% HNO_3

Acid Concentration - 98% HNO_3 - 9-15 tons, or maximum 30 tons, 100% HNO_3

Ammonium Nitrate and Ammonium Salts average of 2 tons, or maximum 30 tons, explosive $\text{NH}_4 \text{NO}_3$ and a maximum of 112 tons of Ammonium Salts having a ratio $\text{NH}_4 \text{NO}_3 : \text{CaCO}_3$

Calcium Nitrate Maximum of 50 tons of $\text{Ca}(\text{NO}_3)_2$

Carbon Disulphide Maximum of 6 tons of CS_2

Chlorine 2 tons of Cl_2 and 2 to 3 tons of solid Na OH

Sulphur Monochloride maximum of 3.3 tons of 57% $\text{S}_2 \text{Cl}_2$

Trichloroethylene maximum of 2 tons trichloroethylene, shop operates only when Sulphur Monochloride is not being produced.

Ethylinediamine 0.4 tons of ethylinediamine

Cracking Plant processes 60-90 tons of crude oil from which it prepares 60-65% gasoline; 18-20% fuel oil or petroleum coke; 8-10% gas oil.

Vaseline processes 10 tons of crude oil from which is prepared 1 ton of Vaseline."

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